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## [54] METHOD AND APPARATUS FOR LOGICAL DATA ACCESS TO A PHYSICAL RELATIONAL DATABASE

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[58] Field of Search 395/604, 611

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## ABSTRACT

Logical Data Access to the physical structure of a relational database is provided for one or more Applications. Applications are developed using the logical entity types and logical entity type attribute names as described in a logical data model. The Applications then use a Logical Data Access Interface to access each of the required physical relational database tables via the Logical Data Access Layer. Applications then use logical entity type and logical entity type attribute names as specified in the Logical Data Model in making Logical Data Requests to the Logical Data Access Layer. The Logical Data Access Layer provides a rich set of functions for allowing an Application to control and manage a database, build and execute database queries and interface with physical database. The Logical Data Access Layer determines which of the physical tables and associated columns are required to satisfy the Application request and then builds one or more database query statements containing the appropriate physical table and column names.

16 Claims, 33 Drawing Sheets

